```
stty: missing argument to 'erase'
Try 'stty --help' for more information.
[inferno@winus bin]$
[inferno@winus bin]$ emu-
Running: \n/home/fusion/inferno/inf2.3-356/Linux/386/bin/emu -r/home/fusion/inferno/inf2.3-356 -g1024x700 -i4096x8192x8192 -pmain=32000000 -c1
Inferno Release 2.3 Build 265i (LOCAL BUILD) main (pid=11483) compile
Initialize Dis: /dis/mash.dis
  Initialize Dis: /dis/ma
mash% cd /tmp
cd /tmp
mash% sh -n ecmd_winus1
sipc: proxy set to 135.2.180.22:5060
sipc: client set to 8025@lucent.com@*:5060
sipc: local domain @lucent.com
sipc: this client: 8025@lucent.com@135.2.180.25:udp/5060
sipc: announced udp!*15060 /net/udp/1 port 5060
sipc: listen process 962
sipc: monitor process 963
sipc: connect to 5060 at udp!135.2.180.22!5060
sipc: explicitport() -> SIP/2.0/UDP 135.2.180.25
sipc: explicitport() -> SIP/2.0/UDP 135.2.180.25
sipc: explicitport() -> SIP/2.0/UDP 135.2.180.22
sipc: explicitport() -> 135.2.180.25
sipc: sending:
REGISTER sip:lucent.com SIP/2.0
Via: SIP/2.0/UDP 135.2.180.25
From: <sip:8025@lucent.com>
Cot.<sip:8025@lucent.com>
Call-ID: 1753529190@135.2.180.25
Expires: 3600
Content-Length: 0
  sipc: sent: REGISTER
sipc: sound process 968
sipc: receiving:
[SIP/2.0 100 Trying
TO: <sip:80256lucent.com>
From: <sip:80256lucent.com>
Call-ID: 17535291900135.2.180.25
CSeq: 1 REGISTER
Via: SIP/2.0/UDP 135.2.180.25
sipc: /tmp/sc is the command interpreter
sipc: command process 969
Server: Lucent Technologies, Inc. iSIP 1.0/betal
Content-Length: 0
 mash% |
sipc: switching to new received call 17535291900135.2.180.25->17535291900135.2.180.25
sipc: via host 135.2.180.25
sipc: viahost returns 0135.2.180.25:udp/5060
sipc: connect back to 5060 at udpi135.2.180.22!5060
sipc: new connection to udpi135.2.180.22!5060
sipc: state REGISTER 100 Trying
sipc: receiving:
[SIP/2.0 200 OK
TO: <sip:802501ucent.com>; tag=3a06da4d
From: <sip:802501ucent.com>
call-ID: 17535291900135.2.180.25
CSeq: 1 REGISTER
Via: SIP/2.0/UDP 135.2.180.25
Contact: <sip:8025025012
Contact: <sip:8025025015.2.180.25
Contact: <sip:8025025015.2.180.25
Contact: <sip:8025025015.2.180.25
Contact: <sip:8025015.2.180.25
Contact: <sip:8025015.2.180.25
Contact: <sip:8025015.2.180.25
Contact: Content_Length: 0
   ]
sipc: state REGISTER 200 OK
sipc: receiving:
[INVITE sip:80256135.2.180.25 SIP/2.0
TO: <sip:802561ucent.com>
From: <sip:802061ucent.com>
CSeq: 1 INVITE
Via: SIP/2.0/UDP demol:5060;branch=2c8.fc;maddr=135.2.180.20
Via: SIP/2.0/UDP demol:5060;branch=2c8.fc;maddr=135.2.180.22
Via: SIP/2.0/UDP 135.2.180.20
Contact: <sip:80200135.2.180.20
Contact: <sip:80200135.2.180.20
Content-Type: application/sdp
Record-Route: <sip:802561ucent.com;maddr=135.2.180.22>
User-Agent: Inferno Webphone 2630
Content-Length: 174
      0=- 1839005561 1839005561 IN IP4 135.2.180.20

s=Inferno Ephone Session

c=IN IP4 135.2.180.20

t=973511289 0
      m=audio 3456 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
   Contact: <sip:80250135.2.180.25>
Content-Length: 0
```

```
sipc: sent: INVITE 180 Ringing
sipc: f=ringer
echo a >/tmp/sc
echo a >/tmp/sc
sipc> a
sipc: sound received (, 0)
sipc: current state INVITE 200 OK
sipc: explicitport() -> 135.2.180.25
sipc: explicitport() -> 802081ucent.com
sipc: explicitport() -> 802081ucent.com
sipc: explicitport() -> 802581ucent.com
sipc: explicitport() -> 802581ucent.com
sipc: explicitport() -> 802781ucent.com
sipc: explicitport() -
      sipc: announced udp!*!3466 /net/udp/3 port 3466
         v=0

o=- 1839005561 1839005561 IN IP4 135.2.180.25

s=Inferno Ephone Session

c=IN IP4 135.2.180.25

t=973529386 0

m=audio 3466 RTP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
m=audio 3466 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20

sipc: sent: INVITE 200 OK
mash% sipc: hear: test from 135.2.180.25:3466
sipc: hear: test from 135.2.180.25:346
                     sipc: hear: test from 135.2.180.25:3466
```

```
sipc: hear: test from 135.2.180.25:3466
sipc: 
                       v=0

o=- 1839005677 1839005677 IN IP4 135.2.180.20

s=Inferno Ephono Session

c=IN IP4 135.2.180.20

t=93512429 0

m=audio 3456 RTP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
                       | sipc: received sid = 1839005677 |
sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20 |
sipc: current state INVITE 180 Ringing |
sipc: explicitport() -> 135.2.180.25 |
sipc: sound received (r, -1) |
sipc: sound received (r, -1) |
sipc: explicitport() -> 8020@lucent.com |
sipc: explicitport() -> 8025@lucent.com |
sipc: explicitport() -> 8025@lucent.com |
sipc: sending: |
SIP/2.0 180 Ringing |
Route: <sip:8020@l35.2.180.20 |
Route: <sip:8020@l35.2.180.20 |
route: sip:8020@l35.2.180.20 |
Route: <sip:8020@lucent.com |
SIP/2.0/UDP demol:5060;branch=2c8.fc;maddr=135.2.180.22 |
Via: SIP/2.0/UDP 135.2.180.20 |
From: <sip:8020@lucent.com |
To: <sip:8020@lucent.com |
To: <sip:8020@lucent.com |
To: <sip:8020@lucent.com |
To: <sip:8025@lucent.com |
To: <sip:8025@lucent.
                          From: <sip:8020@lucent.com>
To: <sip:8025@lucent.com>
Call-ID: 1753512429@l35.2.180.20
CSeq: 1 INVITE
Contact: <sip:8025@l15.2.180.25>
Content-Length: 0
                       sipc: sent: INVITE 180 Ringing
sipc: receiving:
[INVITE sip:8025@135.2.180.25 SIP/2.0
TO: <sip:8025@lucent.com>
From: <sip:8020@lucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 1 INVITE
Via: SIP/2.0/UDP demo1:5060;branch=2c8.fc;maddr=135.2.180.22
Via: SIP/2.0/UDP 135.2.180.20
Contact: <sip:8020@135.2.180.20
Contact: <sip:8020@135.2.180.20>;action=proxy
Content-Type: application/sdp
Record-Route: <sip:8025@lucent.com;maddr=135.2.180.22>
User-Agent: Inferno Webphone 2630
Content-Length: 174
                                   v=0
o=- 1839005677 1839005677 IN IP4 135.2.180.20
                                0== 163900507 12390500

c=Inferno Ephone Session

c=IN 1P4 135.2.180.20

t=973512429 0

m=audio 3456 RTP/AVP 0
                                   a=rtpmap:0 PCMU/8000
a=ptime:20
```

```
l sipc: received sid = 1839005677
sipc: received a dupplicate INVITE
sipc: would restart sip listener
sipc: would restart sip listener
sipc: via host demol:5060;branch=2c8.fc;maddr=135.2.180.22
sipc: viahost returns @demol:udp/5060;branch=2c8.fc;maddr=135.2.180.22
sipc: INVITE 180 Ringing resent
      mash% echo a >/tmp/sc
echo a >/tmp/sc
sipc> a
     sipc> a

sipc: sound received (, 0)

sipc: current state INVITE 200 OK

sipc: explicitport() -> 315.2.180.25

sipc: explicitport() -> 8020@lucent.com

sipc: explicitport() -> 8025@lucent.com

sipc: explicitport() -> 8025@lucent.com

sipc: explicitport() -> 8025@lucent.com

sipc: explicitport() -> 8025@lucent.com

comparison of the com
        sipc: start RTP/AVP/0 audio: 1 135.2.180.20:3456 135.2.180.25:3466
sipc: announced udp!*!3466 /net/udp/6 port 3466
sipc: audiolisten start size 172
sipc: announced udp!*!3467 /net/udp/7 port 3467
sipc: sending:
SIP/2.0 200 OK
ROUte: <sip:80259lucent.com;maddr=135.2.180.22>
ROUte: <sip:80208135.2.180.20>;action=proxy
Via: SIP/2.0/UDP demol:5060;branch=2c8.fc;maddr=135.2.180.22
Via: SIP/2.0/UDP 135.2.180.20
From: <sip:80208lucent.com>
To: <sip:80208lucent.com>
To: <sip:80258lucent.com>
Call-ID: 17353124298135.2.180.20
CSeq: 1 INVITE
Contact: <sip:80258135.2.180.25>
Content-Type: application/sdp
Content-Length: 174
     v=0

o=- 1839005677 1839005677 IN IP4 135.2.180.25

s=Inferno Ephone Session

c=IN IP4 135.2.180.25

t=973530530 0

m=audio 3466 RTP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
     Sipc: sent: INVITE 200 OK
mash% sipc: hear: test from 135.2.180.25:3466
sipc: stop z >/tmp/sc
sipc> z
sipc> z
sipc: stop audio: 1 135.2.180.20:3456:RTP/AVP/0 135.2.180.25:3466:RTP/AVP/0
     sipc: stop audio: 1 135.2.180.20:3456:RTP/AVP/O
sipc: sound received (, 0)
kill: process 0: file does not exist
sipc: current state BYE 0
sipc: explicitport() -> 135.2.180.25
sipc: explicitport() -> 8020@lucent.com
sipc: explicitport() -> 8025@lucent.com
sipc: sending:
BYE sip:8025@lucent.com SIP/2.0
Route: <sip:8025@lucent.com;maddr=135.2.180.22>
Route: <sip:8025@lucent.com>
To: <sip:8025@lucent.com>
To: <sip:8025@lucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 2 BYE
Contact: <sip:8025@l35.2.180.25>
Content-Length: 0
          sipc: sent: BYE
sipc: receiving:
[SIP/2.0 200 OK
TO: <sip:80250lucent.com>;tag=3a06da4d
From: <sip:8020elucent.com>
mash8 Call-ID: 17535124290135.2.180.20
CSon: 2 BVF
           CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20; received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/beta1
Content-Length: 0
        ]
sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20
sipc: state BYE 200 OK
sipc: receiving:
[SIP/2.0 200 OK
TO: <sip:8025@lucent.com>;tag=3a06da4d
From: <sip:8020@lucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/beta1
Content-Length: 0
          ]
sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20
sipc: state BYE 200 OK
sipc: receiving:
[SIP/2.0 200 OK
To: <sip:8025@lucent.com>; tag=3a06da4d
From: <sip:8020@lucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20; received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/beta1
Content-Length: 0
```

```
]
sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20
sipc: state BYE 200 OK
sipc: receiving:
[SIP/2.0 200 OK
To: <sip:8025@lucent.com>;tag=3a06da4d
From: <sip:8020@lucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/betal
Content-Length: 0
l sipc: switching to new received call 17535112898135.2.180.20->17535124298135.2.180.20 sipc: state BYE 200 OK sipc: receiving: (SIP/2.0 200 OK TO: <sip:802581ucent.com>;tag=3a06da4d Prom: <sip:802081ucent.com>;tag=3a06da4d Prom: <sip:802081ucent.com> CSCQ: 2 BYE Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25 Server: Lucent Technologies, Inc. iSIP 1.0/betal Content-Length: 0
}
sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20
sipc: state BYE 200 OK
sipc: receiving:
[SIP/2.0 200 OK
TO: <sip:8025@lucent.com>;tag=3a06da4d
From: <sip:8020@lucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/betal
Content-Length: 0
} sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20 sipc: state BYE 200 OK sipc: receiving: [SIP/2.0 200 OK TO: <sip:8025@lucent.com>;tag=3a06da4d From: <sip:8020@lucent.com> Call-ID: 1753512429@135.2.180.20 CSeq: 2 BYE Wis SIP(2.0 (MUR) 136.2.180.20 CSeq: 2 BYE
  CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20; received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/betal
Content-Length: 0
 ]
sipc: switching to new received call 17535112890135.2.180.20->17535124290135.2.180.20
sipc: state BYE 200 OK
sipc: receiving:
[SIP/2.0 200 OK
To: <sip:802501ucent.com>;tag=3a06da4d
From: <sip:802501ucent.com>
Call-ID: 17535124290135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/beta1
Content-Length: 0
 ]
sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20
sipc: state BYE 200 OK
sipc: receiving:
[SIP/2.0 200 OK
TO: <sip:8025@lucent.com>;tag=3a06da4d
From: <sip:8020@lucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/betal
Content-Length: 0
 ]
sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20
sipc: state BYE 200 OK
echo q >/tmp/sc
echo q >/tmp/sc
sipc> q
sipc: sound received (, 0)
mash% sipc: sound received (, 0)
sipc: sound process ends
kill: process 968: file does not exist
kill: process 1001: file does not exist
sipc: stop audio: 1 135.2.180.20:3456:RTP/AVP/0 135.2.180.25:3466:RTP/AVP/0
   kill: process 0: file does not exist
  mash% sip 8025
sip 8025
sipc: this client: 80250135.2.180.25:udp/8025
sipc: using Styx locator for SIP clients
mash% echo q >/tmp/sc
echo q >/tmp/sc
mash% kill: process 1015: file does not exist
kill: process 1019: file does not exist
  mash% sip -v 8025

sip -v 8025

sipc: this client: 80250135.2.180.25:udp/8025

sipc: using Styx locator for SIP clients

mash% sipc: receiving:

[INVITE sip:80250135.2.180.25:8025 SIP/2.0

Via: SIP/2.0/UDP 135.2.180.20:8020

From: <sip:80200135.2.180.20:8020>
```

```
To: <sip:80258135.2.180.25:8025>
Call-ID: 17535127698135.2.180.20
CSeq: 1 INVITE
Contact: <sip:80208135.2.180.20:8020>
User-Agent: Inferno Webphone 2630
Subject: Inferno Webphone INVITE
Content-Type: application/sdp
Content-Length: 174
  v=0

o=- 1839005505 1839005505 IN IP4 135.2.180.20

s=Inferno Ephone Session

c=IN IP4 135.2.180.20

t=973512769 0

m=audio 3456 RTP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
  l sipc: sending: SiP/2.0 180 Ringing Via: SIP/2.0 /UDP 135.2.180.25:8025 From: <sip:80208135.2.180.20:8020> To: <sip:80258135.2.180.25:8025> Call-ID: 17535127698135.2.180.20 CSeq: 1 INVITE Contact: <sip:80258135.2.180.25:8025> Content-Length: 0
      sipc: sent: INVITE 180 Ringing
echo a >/tmp/sc
echo a >/tmp/sc
  echo a >/tmp/sc
sipc: sending:
SIP/2.0 200 OK
Via: SIP/2.0/UDP 135.2.180.25:8025
From: <sip:80206135.2.180.25:8025>
Call-ID: 17535127696135.2.180.20
CSeq: 1 INVITE
Contact: <sip:80256135.2.180.25:8025>
Content-Type: application/sdp
Content-Length: 174
      v=0
o=- 1839005505 1839005505 IN IP4 135.2.180.25
      O=- 1839005005

S=Inferno Ephone Session

c=IN IP4 135.2.180.25

t=973530855 0

m=audio 3466 RPP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
  sipc: Sent: INVITE 200 OK
mash% sipc: hear: test from 135.2.180.25:3466
sipc: receiving:
(ACK sip:8025@135.2.180.25:8025 SIP/2.0
Via: SIP/2.0/UDP 135.2.180.25:8025
Via: SIP/2.0/UDP 135.2.180.20:8020
From: <sip:8020@135.2.180.20:8020
To: <sip:8025@135.2.180.20:8020
Co: <sip:8025@135.2.180.20:8020
CSeq: 1 INVITE
Contact: <sip:8020@135.2.180.20:8020
Contact: <sip:8020@135.2.180.20:8020
Contact: <sip:8020@135.2.180.20:8020
Content-Length: 0
  l sipc: state ACK 0 sipc: speak: test from 135.2.180.20:3456 sipc: hear: test from 135.2.180.20:3456 sipc: hear: test from 135.2.180.20:3456 sipc: speak: test from 135.2.180.20:3456 sipc: hear: test from 135.2.180.20:3456 sipc: speak: test fr
      ] sipc: sending:
SIP/2.0 200 OK
Via: SIP/2.0/UDP 135.2.180.25:8025
From: <sip:8020@135.2.180.20:8020>
To: <sip:8025@135.2.180.25:8025>
Call-ID: 1753512765@135.2.180.20
CSeq: 2 BYE
Contact: <sip:8025@135.2.180.25:8025>
Contact: <sip:8025@135.2.180.25:8025>
          sipc: sent: BYE 200 OK
sipc: would restart sip listener
```

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05/26/05 10:13 AM